

Title (en)
Double-locking door lock apparatus for vehicle

Title (de)
Kraftfahrzeugschloss mit Diebstahlsicherung

Title (fr)
Serrure de porte de vehicule à double verrouillage

Publication
EP 2369103 A3 20170322 (EN)

Application
EP 11155805 A 20110224

Priority
JP 2010071842 A 20100326

Abstract (en)
[origin: EP2369103A2] A double-locking door lock apparatus (100) for a vehicle includes a latch mechanism (10), an inside open lever (21), an outside open lever (22), an open link (23), a lock mechanism switching the open link (23) between unlocked and locked states, and a double lock mechanism switching a vehicle door between a double locked state and a double-lock cancelled state, the lock mechanism including an active lever (25) shifting the open link (23) between the unlocked and locked states, and the double lock mechanism including a double lock lever (27) shifted from an unset position to a set position by a setting operation of a double-locking member to restrain the open link (23) from shifting from the locked state to the unlocked state, the double lock lever (27) shifted from the set position to the unset position by an unsetting operation of the double-locking member to allow the open link (23) to shift from the locked state to the unlocked state.

IPC 8 full level
E05B 47/00 (2006.01); **E05B 77/28** (2014.01); **E05B 77/32** (2014.01); **E05B 81/16** (2014.01); **E05B 83/36** (2014.01); **E05B 85/02** (2014.01)

CPC (source: EP)
E05B 77/245 (2013.01); **E05B 77/28** (2013.01); **E05B 77/30** (2013.01); **E05B 77/32** (2013.01); **E05B 81/06** (2013.01); **E05B 81/16** (2013.01); **E05B 81/36** (2013.01)

Citation (search report)

- [XA] US 2009243309 A1 20091001 - TAKAHASHI AKIRA [US], et al
- [XA] US 2010013246 A1 20100121 - TOMASZEWSKI KRIS [CA], et al
- [A] WO 2009037904 A1 20090326 - MITSUI MINING & SMELTING CO [JP], et al & US 2010212374 A1 20100826 - FUJIHARA YOSHIHIKO [JP]
- [A] US 2009243308 A1 20091001 - ISHIGURO KATSUYUKI [JP], et al
- [AD] JP 3767342 B2 20060419

Cited by
US11225814B2; CN113622763A; GB2539989A; CN107250474A; US10982470B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2369103 A2 20110928; **EP 2369103 A3 20170322**; CN 102199959 A 20110928; CN 102199959 B 20150218; JP 2011202442 A 20111013; JP 5582291 B2 20140903

DOCDB simple family (application)
EP 11155805 A 20110224; CN 201110080140 A 20110325; JP 2010071842 A 20100326